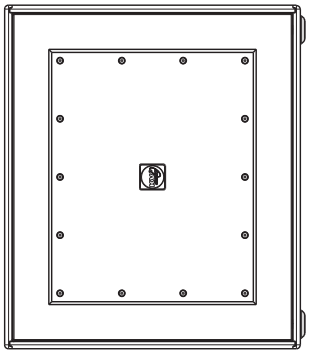
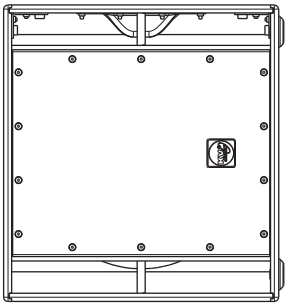
ESD Subwoofers User Guide

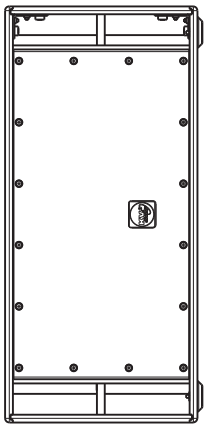
- ESD1.12



- ESD1.15



- ESD1.18



The future of sound. Made perfectly clear.

At KV2 Audio our vision is to constantly develop technologies that eliminate distortion and loss of information providing a true dynamic representation of the source.

Our aim is to create audio products that absorb you, place you within the performance and deliver a listening experience beyond expectation.

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ESD1.12

MODEL NUMBER:
ESD1.12
PART NUMBER:
KVV 987 225

Application:

- Specifically designed as a passive subwoofer to accompany and compliment the ESD6 as a true full range system
- For fixed installation
- Bars-small entertainment projects
- Small footprint and dimensions allow placement under seating and fixtures

Description:

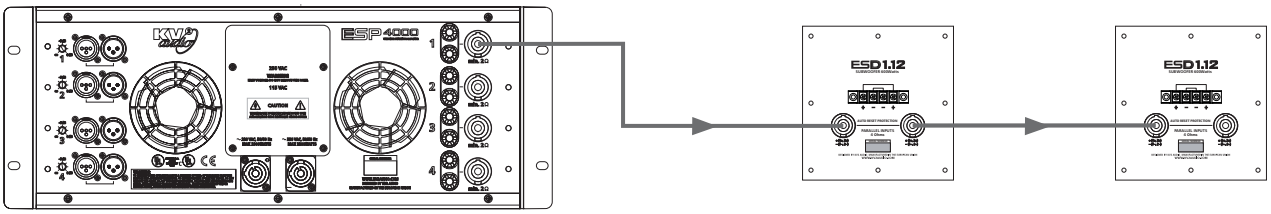
The ESD1.12 is a very compact passive, high output subwoofer. The ESD1.12 is a passive version of the active EX1.2 12" subwoofer and features the same high quality neodymium driver.
This subwoofer's low profile and size makes it ideal for discreet applications.

With a power handling of 600 watts, the ESD1.12 is capable of delivering tight, fast, controlled bass response at high output levels from a compact cabinet.

The ESD1.12 woofer is protected by a reverse thermal-circuit breaker (autoreset) and features a professional Baltic Birch construction with a wear resistant polymer coating and a specially designed handle for simplified handling and carrying. The ESD1.12 is also available in any RAL colour (white RAL9003 on stock).

Connection:

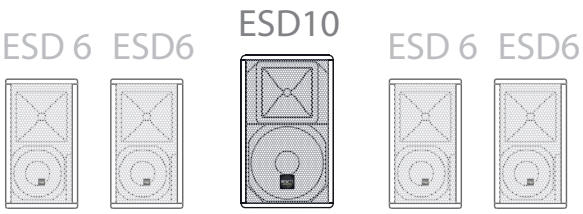
The ESD1.12 features both Speakon (NL4) connectors and a terminal block. The connectors are interconnected in parallel to allow the "daisy chaining" of additional ESD1.12's.

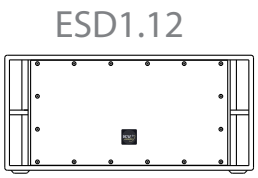


PARALLEL CONNECTION OF THE ESD1.12 (4Ω) - TOTAL IMPEDANCE 2Ω

Configurations example:

ESD1.12 + 1x ESD10 or 4x ESD6





ESD1.12 + 1x ESD10 or 4x ESD6

ESD1.12 Specifications:

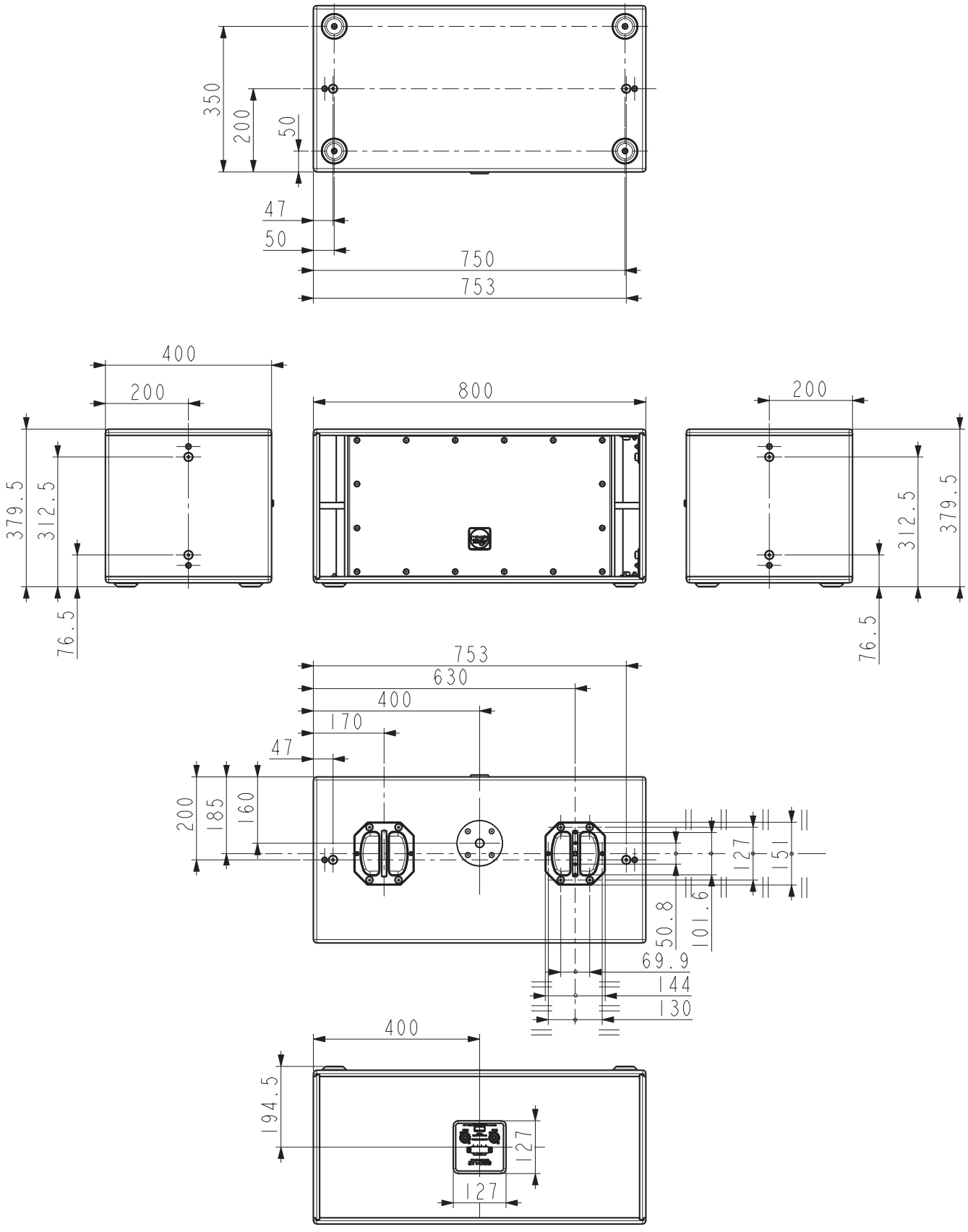
System Acoustic Perfomance	
Max SPL Long-term	*124dB*
Max SPL Peak	*127dB*
-3dB Response	*38Hz ÷ 150Hz*
Recommended Power	*600W*
Sensitivity	*97dB*
Impedance	*4Ω*
Crossover Point	*80Hz ÷ 150Hz*

Low Frequency Section	
Acoustic Design	*Twin Asymmetrical loading*
Number of Drivers	*1*
Woofer Size / Voice Coil Diameter / Design	*12" / 3" / Inside outside*
Magnet Type	*Neodymium*
Diaphragm Material	*Epoxy Reinforced Cellulose*
Protection	*Thermal breaker - autoreset*

Speaker Input	
Speaker Input	*2x Neutrik Speakon®, Terminal Block*

Cabinet	
Cabinet Material	*Baltic birch*
Handles	*2*
Pole Mount	*M20*
Flyware	*8x M10 suspension points*
Color	*"Orange peeled" Matt Black or any RAL*

Physical Dimensions	
Height	*370mm (14.57")*
Width	*800mm (31.49")*
Depth	*400mm (15.75")*
Weight	*28kg (61.7lbs)*


350
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47
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750
753
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800
200
379.5
312.5
76.5
312.5
379.5
76.5
753
630
400
170
47
200
185
160
127
151
50.8
101.6
69.9
144
130
400
194.5
127
127

ESD1.15

MODEL NUMBER:
ESD1.15
PART NUMBER:
KVV 987 241

Application:

- Specifically designed as a passive subwoofer to accompany any of the ESD range to create true full range system performance
- Fixed installation
- Portable PA
- Bars-small entertainment projects
- Scalable into larger systems

Description:

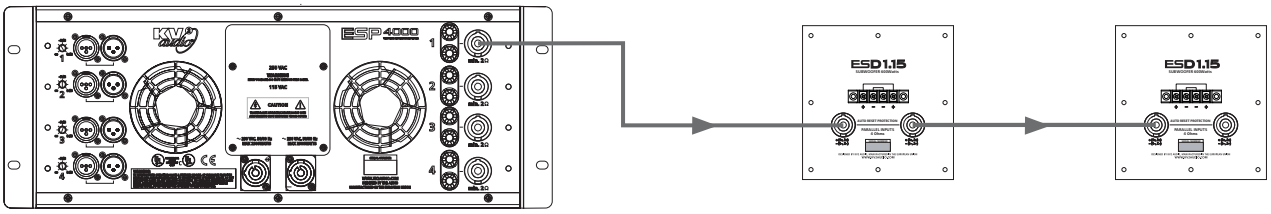
The ESD1.15 is a compact passive, high output subwoofer. The ESD1.15 features a single 15" neodymium driver. Offering a peak SPL of 130dB the ESD1.15 produces considerable output yet in true KV2 style retains a compact footprint. Multiple units of ESD 1.15's can be stacked together to create a powerful and scalable subwoofer system.

With a power handling of 600 watts and high efficiency, the ESD1.15 is capable of delivering fast, controlled bass response at high output levels from a compact cabinet.

The ESD1.15 woofer is protected by a reverse thermal-circuit breaker (autoreset) and features a professional Baltic Birch construction with a wear resistant polymer coating and a specially designed handle for simplified handling and carrying. The ESD1.15 is also available in any RAL colour (white RAL9003 on stock).

Connection:

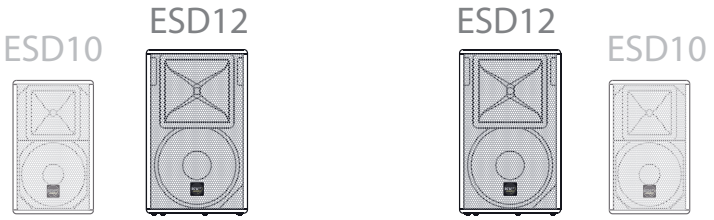
The ESD1.15 features both Speakon (NL4) connectors and a terminal block. The connectors are interconnected in parallel to allow the "daisy chaining" of additional ESD1.12's.

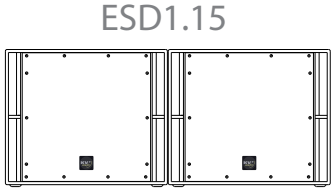


PARALLEL CONNECTION OF THE ESD1.15 (4Ω) - TOTAL IMPEDANCE 2Ω

Configurations example:

2x ESD1.15 + 2x ESD10 or 2x ESD12





2x ESD1.15 + 2x ESD10 or 2x ESD12

ESD1.15 Specifications:

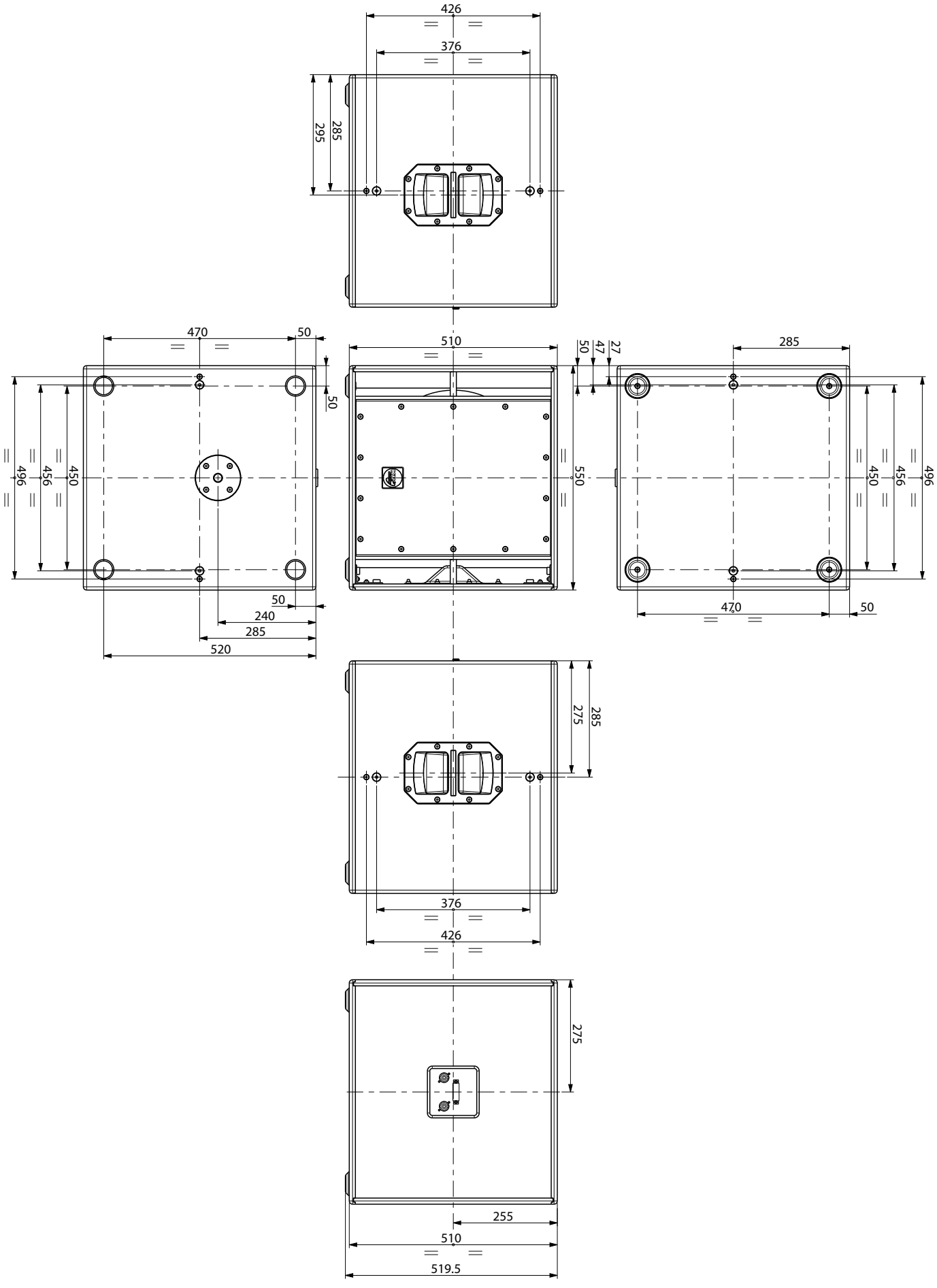
System Acoustic Perfomance	
Max SPL Long-term	*127dB*
Max SPL Peak	*130dB*
-3dB Response	*37Hz ÷ 150Hz*
Recommended Power	*600W*
Sensitivity	*99dB (half-space area)*
Impedance	*4Ω*
Crossover Point	*80Hz ÷ 150Hz*

Low Frequency Section	
Acoustic Design	*Twin Asymmetrical loading*
Number of Drivers	*1*
Woofer Size / Voice Coil Diameter / Design	*15" / 3" / Inside Outside*
Diaphragm Material	*Epoxy Reinforced Cellulose*
Magnet Type	*Neodymium*
Protection	*Thermal breaker - autoreset*

Speaker Input	
Speaker Input	*2x Neutrik Speakon®, Terminal Block*

Cabinet	
Cabinet Material	*Baltic birch*
Handles	*2*
Pole Mount	*M20*
Flyware	*8x M10 suspension points*
Color	*"Orange peeled" Matt Black or any RAL*

Physical Dimensions	
Height	*510mm (20.08")*
Width	*550mm (21.65")*
Depth	*570mm (22.44")*
Weight	*31kg (68.34lbs)*


426
376
295
285
470
50
510
50
47
27
285
496
456
450
550
50
240
285
520
275
376
426
255
519.5

ESD1.18

MODEL NUMBER:
ESD1.18
PART NUMBER:
KVV 987 242

Application:

- Specifically designed as a passive subwoofer to accompany any of the ESD range to create true full range system performance
- Fixed installation
- Portable PA
- Bars-small entertainment projects
- Scalable into larger systems

Description:

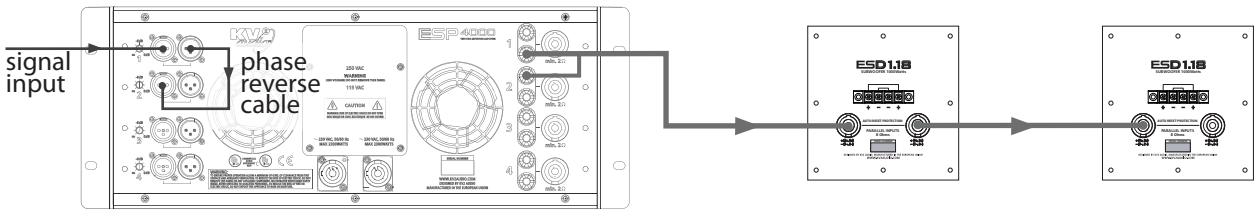
The ESD1.18 is a high output subwoofer. The ESD1.18 is a passive version of the active EX1.8, 18" subwoofer and features the same high quality neodymium driver. The unit provides a very firm foundation on which to build a powerful ESD system.

With a power handling of 1000 watts, the ESD1.18 is capable of delivering controlled bass response at very high output levels from a relatively small cabinet.

The ESD1.18 woofer is protected by a reverse thermal-circuit breaker (autoreset) and features a professional Baltic Birch construction with a wear resistant polymer coating and a specially designed handle for simplified handling and carrying. The ESD1.18 is also available in any RAL colour.

Connection:

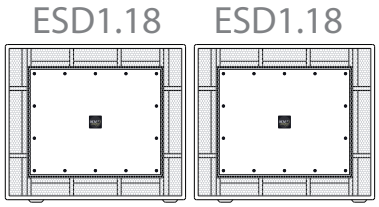
The ESD1.18 features both Speakon (NL4) connectors and a terminal block. The connectors are interconnected in parallel to allow the "daisy chaining" of additional ESD1.18's.



PARALLEL CONNECTION OF THE ESD1.18 (8Ω) FROM THE BRIDGED ESP4000 - TOTAL IMPEDANCE 4Ω

Configurations example:

2x ESD1.18 + 2x ESD12



ESD1.12 + 1x ESD10 or 4x ESD6

ESD1.18 Specifications:

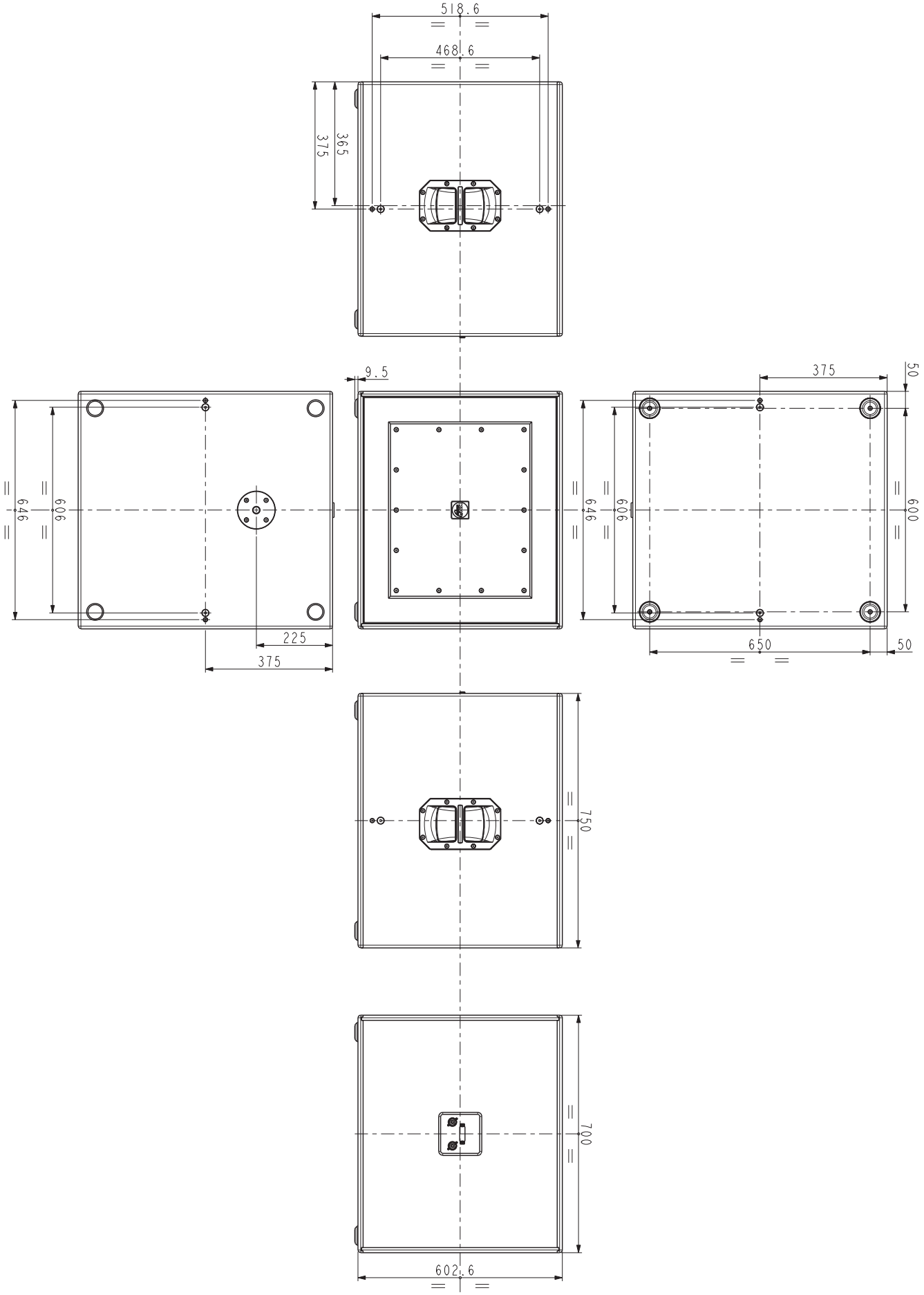
System Acoustic Perfomance	
Max SPL Long-term	*131dB*
Max SPL Peak	*134dB*
-3dB Response	*30Hz ÷ 150Hz*
Recommended Power	*1000W*
Sensitivity	*100dB*
Impedance	*8Ω*
Crossover Point	*80Hz ÷ 150Hz*

Low Frequency Section	
Acoustic Design	*Twin Asymmetrical loading*
Number of Drivers	*1*
Woofer Size / Voice Coil Diameter / Design	*18" / 4" / Inside outside*
Magnet Type	*Neodymium*
Diaphragm Material	*Epoxy Reinforced Cellulose*
Protection	*Thermal breaker - autoreset*

Speaker Input	
Speaker Input	*2x Neutrik Speakon®, Terminal Block*

Cabinet	
Cabinet Material	*Baltic birch*
Handles	*2*
Pole Mount	*M20*
Flyware	*8x M10 suspension points*
Color	*"Orange peeled" Matt Black or any RAL*

Physical Dimensions	
Height	*612mm (24.1")*
Width	*700mm (27.56")*
Depth	*750mm (29.5")*
Weight	*52kg (114.7lbs)*

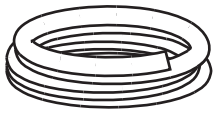

518.6
468.6
375
365
9.5
375
50
646
606
600
225
375
650
50
750
700
602.6

POLE MOUNT

PART NAME:
KV2-H, Speaker pole - universal

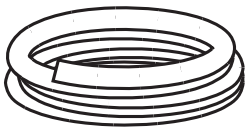
PART NUMBER:
KVV 987 130

SPEAKER CABLES



PART NAME:
1m - round flexible speaker cable, cross section 2 x 1.5mm

PART NUMBER:
KVV 987 250



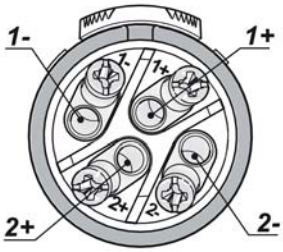
PART NAME:
1m - round flexible speaker cable, cross section 4 x 2.5mm

PART NUMBER:
KVV 987 251

PART NAME:
SPEAKON NL4

PART NUMBER:
KVV 987 240

ESD, Speakon NL4 wiring



positive pin
(1 +, 2 + parallel)

negative pin
(1 -, 2 - parallel)

RECOMMENDED SPEAKER CABLE LENGTHS

MINIMUM CROSS SECTION [mm^2]	LENGTH [m], impedance 4Ω	LENGTH [m], impedance 8Ω	LENGTH [m], impedance 16Ω
1.5	8	15	30
2.5	15	30	60
2 x 2.5	20	40	90
4	25	50	100

WARRANTY:
Your ESD is covered against defects in material and workmanship.
Refer to your supplier for more details.

SERVICE:
In the unlikely event that your ESD develops a problem, it must be returned to an authorised distributor, service centre or shipped directly to our factory. Because of the complexity of the design and the risk of electrical shock, all repairs must be attempted only by qualified technical personnel.

If the unit needs to be shipped back to the factory, it must be sent in its original carton. If improperly packed, the unit may be damaged.

To obtain service, contact your nearest KV2 Audio Service Centre, Distributor or Dealer.

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